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Applications II: Repeating pattern discovery and structure analysis from acoustic

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music data

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Lie Lu, Muyuan Wang, Hong-Jiang Zhang

October 2004 Proceedings of the 6th ACM SIGMM international workshop on Multimedia information retrieval

Publisher: ACM Press

Full text available: pdf(380.44 KB) Additional Information: full citation, abstract, references, index terms

Music and songs usually have repeating patterns and prominent structure. The automatic extraction of such repeating patterns and structure is useful for further music summarization, indexing and retrieval. In this paper, an effective approach of repeating pattern discovery and structure analysis of acoustic music data is proposed. In order to represent the melody similarity more accurately, in our approach, Constant Q transform is utilized in feature extraction and a novel similarity measure ...

Keywords: CQT, music structure, repeating pattern, structure-based distance measure

Analysis and modeling of F0 contours for cantonese text-to-speech

Yujia Li, Tan Lee, Yao Qian

September 2004 ACM Transactions on Asian Language Information Processing (TALIP), Volume 3 Issue 3

Publisher: ACM Press

Full text available: pdf(969.61 KB) Additional Information: full citation, abstract, references, index terms

For the generation of highly natural synthetic speech, the control of prosody is of primary importance. The fundamental frequency (F0) is one of the most important components of speech prosody. This research investigates the variation of F0 in continuous Cantonese speech, with the goal of establishing an effective mechanism of prosody control in Cantonese text-to-speech (TTS) applications. Cantonese is a commonly used Chinese dialect that is well known for being rich in tones. This article de ...

Keywords: Chinese dialects, Text-to-speech, fundamental frequency, prosody, tones

3 Real-time acoustic modeling for distributed virtual environments Thomas Funkhouser, Patrick Min, Ingrid Carlbom



July 1999 Proceedings of the 26th annual conference on Computer graphics and interactive techniques

Publisher: ACM Press/Addison-Wesley Publishing Co.

Full text available: 🔂 pdf(262.94 KB) Additional Information: full citation, references, citings, index terms

Keywords: acoustic modeling, auralization, beam tracing, virtual environment systems, virtual reality

4 Voice response systems

D L. Lee, F H. Lochovsky

December 1983 ACM Computing Surveys (CSUR), Volume 15 Issue 4

Publisher: ACM Press

Full text available: pdf(2.22 MB) Additional Information: full citation, references, index terms

5 Voice fonts for individuality representation and transformation

Ashish Verma, Arun Kumar

February 2005 ACM Transactions on Speech and Language Processing (TSLP), Volume 2

Publisher: ACM Press

Full text available: pdf(201.04 KB) Additional Information: full citation, abstract, references, index terms

Speaker individuality transformation is used to modify the speech signal's characteristics so that it sounds as if it is spoken by another speaker. Previous methods for individuality transformation use mapping functions which depend upon a pair of speakers. We introduce the paradigm of voice fonts to represent the individuality of a speaker, independent of other speakers. Several objective and subjective tests are conducted to evaluate the performance of the approaches proposed for the voice fon ...

Keywords: Speech individuality, voice conversion, voice fonts

6 Acoustic modeling: Minimizing speaker variation effects for speaker-independent speech recognition

Xuedong Huang

February 1992 Proceedings of the workshop on Speech and Natural Language HLT '91

Publisher: Association for Computational Linguistics

Full text available: pdf(605.36 KB) Additional Information: full citation, abstract, references

For speaker-independent speech recognition, speaker variation is one of the major error sources. In this paper, a speaker-independent normalization network is constructed such that speaker variation effects can be minimized. To achieve this goal, multiple speaker clusters are constructed from the speaker-independent training database. A codeworddependent neural network is associated with each speaker cluster. The cluster that contains the largest number of speakers is designated as the golden c ...

7 Acoustic modeling: Subphonetic modeling for speech recognition

Mei-Yuh Hwang, Xuedong Huang

February 1992 Proceedings of the workshop on Speech and Natural Language HLT '91

Publisher: Association for Computational Linguistics

Full text available: pdf(611.33 KB) Additional Information: full citation, abstract, references

How to capture important acoustic clues and estimate essential parameters reliably is one

of the central issues in speech recognition, since we will never have sufficient training data to model various acoustic-phonetic phenomena. Successful examples include subword models with many smoothing techniques. In comparison with subword models, subphonetic modeling may provide a finer level of details. We propose to model subphonetic events with Markov states and treat the state in phonetic hidden Mar ...

Spoken dialogue technology: enabling the conversational user interface Michael F. McTear March 2002 ACM Computing Surveys (CSUR), Volume 34 Issue 1 Publisher: ACM Press Additional Information: full citation, abstract, references, citings, index Full text available: pdf(987.69 KB) terms, review Spoken dialogue systems allow users to interact with computer-based applications such as databases and expert systems by using natural spoken language. The origins of spoken dialogue systems can be traced back to Artificial Intelligence research in the 1950s concerned with developing conversational interfaces. However, it is only within the last decade or so, with major advances in speech technology, that large-scale working systems have been developed and, in some cases, introduced into commerc ... **Keywords**: Dialogue management, human computer interaction, language generation, language understanding, speech recognition, speech synthesis 9 The Hearsay-II Speech-Understanding System: Integrating Knowledge to Resolve Uncertainty Lee D. Erman, Frederick Hayes-Roth, Victor R. Lesser, D. Raj Reddy June 1980 ACM Computing Surveys (CSUR), Volume 12 Issue 2 Publisher: ACM Press Full text available: pdf(3.83 MB) Additional Information: full citation, references, citings, index terms 10 Continuous speech recognition I: Acoustic modeling of subword units for large vocabulary speaker independent speech recognition Chin-Hui Lee, Lawrence R. Rabiner, Roberto Pieraccini, Jay G. Wilpon October 1989 Proceedings of the workshop on Speech and Natural Language HLT '89 Publisher: Association for Computational Linguistics Full text available: pdf(904.19 KB) Additional Information: full citation, abstract, references The field of large vocabulary, continuous speech recognition has advanced to the point where there are several systems capable of attaining between 90 and 95% word accuracy for speaker independent recognition of a 1000 word vocabulary, spoken fluently for a task with a perplexity (average word branching factor) of about 60. There are several factors which account for the high performance achieved by these systems, including the use of hidden Markov models (HMM) for acoustic modeling, the use of ... 11 Video Processing: Multimedia edges: finding hierarchy in all dimensions Malcolm Slaney, Dulce Ponceleon, James Kaufman October 2001 Proceedings of the ninth ACM international conference on Multimedia

Full text available: pdf(6.41 MB) terms

Additional Information: full citation, abstract, references, citings, index

Publisher: ACM Press

This paper describes a new unified representation for the informaction in a video. We reduce the dimensionality of the signal with either a singular-value decomposition (on the semantic and image data) or mel-frequency cepstral coefficients (on the audio data) and then concatenate the vectors to form a multi-dimensional represenctation of the video. Using scale-space techniques we find large jumps in the video's path, which we call edges. We use these techiniques to analyze the temporal properti ...

Keywords: audio, automatic segmentation, color space, hierarchy, images, latent semantic indexing, multimedia, video, scale space, semantic space, singular-value decomposition, temporal properties

12 Semiring parsing

Joshua Goodman

December 1999 Computational Linguistics, Volume 25 Issue 4

Publisher: MIT Press

Full text available: pdf(2.13 MB) Additional Information: full citation, abstract, references, citings

Publisher Site

We synthesize work on parsing algorithms, deductive parsing, and the theory of algebra applied to formal languages into a general system for describing parsers. Each parser performs abstract computations using the operations of a semiring. The system allows a single, simple representation to be used for describing parsers that compute recognition, derivation forests, Viterbi, n-best, inside values, and other values, simply by substituting the operations of different semirings. We also show how t ...

13 Using tone information in Cantonese continuous speech recognition

Tan Lee, Wai Lau, Y. W. Wong, P. C. Ching

March 2002 ACM Transactions on Asian Language Information Processing (TALIP), Volume 1 Issue 1

Publisher: ACM Press

Full text available: pdf(800.46 KB) Additional Information: full citation, abstract, references, index terms

In Chinese languages, tones carry important information at various linquistic levels. This research is based on the belief that tone information, if acquired accurately and utilized effectively, contributes to the automatic speech recognition of Chinese. In particular, we focus on the Cantonese dialect, which is spoken by tens of millions of people in Southern China and Hong Kong. Cantonese is well known for its complicated tone system, which makes automatic tone recognition very difficult. This ...

Keywords: Chinese dialects, F0 normalization, knowledge integration, speech recognition, tone recognition

14 Poster session 1: A segment-based audio-visual speech recognizer: data collection.

development, and initial experiments

Timothy J. Hazen, Kate Saenko, Chia-Hao La, James R. Glass

October 2004 Proceedings of the 6th international conference on Multimodal interfaces

Publisher: ACM Press

Full text available: pdf(276.15 KB) Additional Information: full citation, abstract, references, index terms

This paper presents the development and evaluation of a speaker-independent audiovisual speech recognition (AVSR) system that utilizes a segment-based modeling strategy. To support this research, we have collected a new video corpus, called Audio-Visual TIMIT (AV-TIMIT), which consists of 4 total hours of read speech collected from 223 different speakers. This new corpus was used to evaluate our new AVSR system which incorporates a novel audio-visual integration scheme using segment-constrai ...

Keywords: audio-visual corpora, audio-visual speech recognition 15 Video Rewrite: driving visual speech with audio Christoph Bregler, Michele Covell, Malcolm Slaney
August 1997 Proceedings of the 24th annual conference on Computer graphics and interactive techniques Publisher: ACM Press/Addison-Wesley Publishing Co. Full text available: pdf(179.44 KB) Additional Information: full citation, references, citings, index terms Keywords: facial animation, lip sync ¹⁶ Audio-visual speech recognition using red exclusion and neural networks Trent W. Lewis, David M. W. Powers January 2002 Australian Computer Science Communications, Proceedings of the twenty-fifth Australasian conference on Computer science - Volume 4 CRPITS '02, Volume 24 Issue 1 Publisher: Australian Computer Society, Inc., IEEE Computer Society Press Full text available: pdf(984.26 KB) Additional Information: full citation, abstract, references, index terms Automatic speech recognition (ASR) performs well under restricted conditions, but performance degrades in noisy environments. Audio-Visual Speech Recognition (AVSR) combats this by incorporating a visual signal into the recognition. This paper briefly reviews the contribution of psycholinguistics to this endeavour and the recent advances in machine AVSR. An important first step in AVSR is that of feature extraction from the mouth region and a technique developed by the authors is breifly present ... Keywords: audio-visual speech recogition, neural networks, sensor fusion 17 ISIS: an adaptive, trilingual conversational system with interleaving interaction and delegation dialogs Helen Meng, P. C. Ching, Shuk Fong Chan, Yee Fong Wong, Cheong Chat Chan September 2004 ACM Transactions on Computer-Human Interaction (TOCHI), Volume 11 Issue 3 Publisher: ACM Press Full text available: pdf(3.71 MB) Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u> ISIS (Intelligent Speech for Information Systems) is a trilingual spoken dialog system (SDS) for the stocks domain. It handles two dialects of Chinese (Cantonese and Putonghua) as well as English---the predominant languages in our region. The system supports spoken language gueries regarding stock market information and simulated personal portfolios. The conversational interface is augmented with a screen display that can capture mouse-clicks as well as textual input by typing or stylus-writing. ... Keywords: Human-computer spoken language interface, interaction and delegation dialogs 18 Document and passage retrieval based on hidden Markov models Elke Mittendorf, Peter Schäuble August 1994 Proceedings of the 17th annual international ACM SIGIR conference on Research and development in information retrieval

Publisher: Springer-Verlag New York, Inc.

Full text available: 🔁 pdf(827.36 KB) Additional Information: full citation, references, citings, index terms

19 Music: Automated extraction of music snippets

Lie Lu, Hong-Jiang Zhang

November 2003 Proceedings of the eleventh ACM international conference on Multimedia

Publisher: ACM Press

Full text available: pdf(316.12 KB)

Additional Information: <u>full citation</u>, <u>abstract</u>, references, citings, index

Similar to image and video thumbnail, music snippet is defined as the most representative or highlight excerpt of a music clip, and can be used efficiently for fast browsing large number of music files. Music snippet is usually a part of the repeated melody, main theme or chorus. In this paper, we present an approach to extracting music snippet automatically. In our approach, the most salient segment of the music is firstly detected based on its occurrence frequency and energy information. Meanw ...

Keywords: music saliency, music snippet, music structure, music thumbnail, musical phrase, tempo estimation

20 Recursive hashing functions for n-grams

Jonathan D. Cohen

July 1997 ACM Transactions on Information Systems (TOIS), Volume 15 Issue 3

Publisher: ACM Press

Full text available: pdf(361.86 KB)

Additional Information: full citation, abstract, references, citings, index terms, review

Many indexing, retrieval, and comparison methods are based on counting or cataloguing ngrams in streams of symbols. The fastest method of implementing such operations is through the use of hash tables. Rapid hashing of consecutive n-grams is best done using a recursive hash function, in which the hash value of the current n-gram is drived from the hash value of its predecessor. This article generalizes recursive hash functions found in the ...

Keywords: n-grams, hashing, hashing functions, recursive hashing

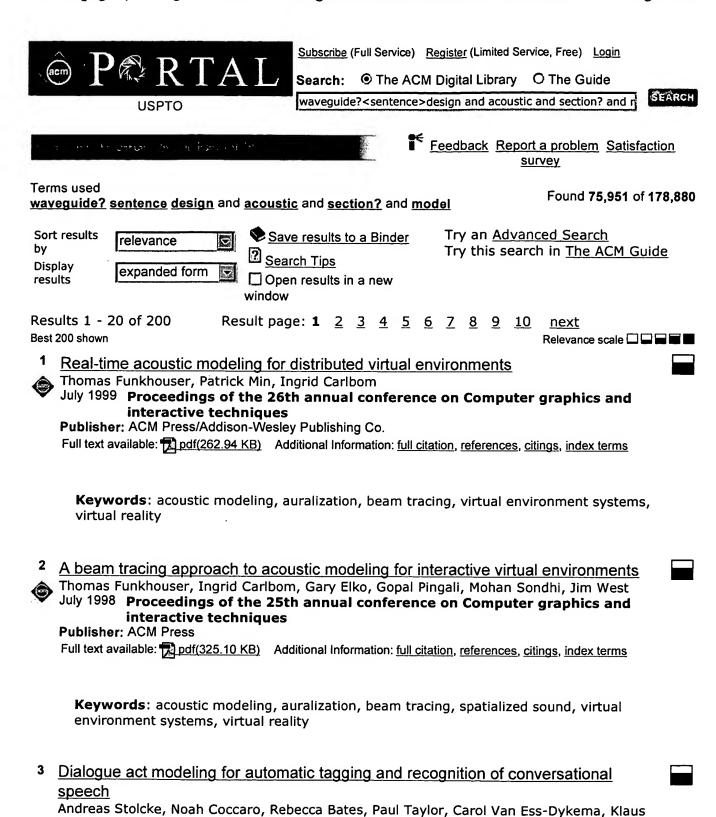
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We describe a statistical approach for modeling dialogue acts in conversational speech, i.e., speech-act-like units such as STATEMENT, QUESTION, BACKCHANNEL, AGREEMENT,

Full text available: pdf(2.53 MB) Additional Information: full citation, abstract, references, citings

Ries, Elizabeth Shriberg, Daniel Jurafsky, Rachel Martin, Marie Meteer

September 2000 Computational Linguistics, Volume 26 Issue 3

Publisher: MIT Press

DISAGREEMENT, and APOLOGY. Our model detects and predicts dialogue acts based on lexical, collocational, and prosodic cues, as well as on the discourse coherence of the dialogue act sequence. The dialogue model is based on treating the discourse structure of a conversation as a hidden ...

4 Speech repairs, intonational phrases, and discourse markers: modeling speakers' utterances in spoken dialogue



Peter A. Heeman, James F. Allen

December 1999 Computational Linguistics, Volume 25 Issue 4

Publisher: MIT Press

Full text available: pdf(3.03 MB) Additional Information: full citation, abstract, references, citings **Publisher Site**

Interactive spoken dialogue provides many new challenges for natural language understanding systems. One of the most critical challenges is simply determining the speaker's intended utterances: both segmenting a speaker's turn into utterances and determining the intended words in each utterance. Even assuming perfect word recognition, the latter problem is complicated by the occurrence of speech repairs, which occur where speakers go back and change (or repeat) something they just said. The word ...

5 Technical papers: Three-dimensional routing in underwater acoustic sensor networks





7

Dario Pompili, Tommaso Melodia

October 2005 Proceedings of the 2nd ACM international workshop on Performance evaluation of wireless ad hoc, sensor, and ubiquitous networks PE-WASUN '05

Publisher: ACM Press

Full text available: Topdf(379.93 KB) Additional Information: full citation, abstract, references, index terms

Underwater sensor networks will find applications in oceanographic data collection, pollution monitoring, offshore exploration, disaster prevention, assisted navigation, and tactical surveillance applications. In this paper, the problem of data gathering in a 3D underwater acoustic sensor network is investigated at the network layer, by considering the interactions between the routing functions and the characteristics of the underwater channel. Two routing algorithms are proposed for delay-insen ...

Keywords: mathematical programming/optimization, routing algorithms, underwater acoustic sensor networks

6 Acoustic modeling: Minimizing speaker variation effects for speaker-independent speech recognition



Xuedong Huang

February 1992 Proceedings of the workshop on Speech and Natural Language HLT '91

Publisher: Association for Computational Linguistics

Full text available: pdf(605.36 KB) Additional Information: full citation, abstract, references

For speaker-independent speech recognition, speaker variation is one of the major error sources. In this paper, a speaker-independent normalization network is constructed such that speaker variation effects can be minimized. To achieve this goal, multiple speaker clusters are constructed from the speaker-independent training database. A codeworddependent neural network is associated with each speaker cluster. The cluster that contains the largest number of speakers is designated as the golden c ...

<u>Technicial session 5: student best paper contest: LyricAlly: automatic synchronization</u>





of acoustic musical signals and textual lyrics

Ye Wang, Min-Yen Kan, Tin Lay Nwe, Arun Shenoy, Jun Yin

October 2004 Proceedings of the 12th annual ACM international conference on Multimedia

Publisher: ACM Press

Full text available: pdf(485.10 KB) Additional Information: full citation, abstract, references, index terms

We present a prototype that automatically aligns acoustic musical signals with their corresponding textual lyrics, in a manner similar to manually-aligned karaoke. We tackle this problem using a multimodal approach, where the appropriate pairing of audio and text processing helps create a more accurate system. Our audio processing technique uses a combination of top-down and bottom-up approaches, combining the strength of low-level audio features and high-level musical knowledge to determine ...

Keywords: audio/text synergy, karaoke, lyric alignment, music knowledge, vocal detection

8 Attacking passwords and bringing down the network: Keyboard acoustic emanations





revisited

Li Zhuang, Feng Zhou, J. D. Tygar

November 2005 Proceedings of the 12th ACM conference on Computer and communications security CCS '05

Publisher: ACM Press

Full text available: pdf(198.94 KB) Additional Information: full citation, abstract, references, index terms

We examine the problem of keyboard acoustic emanations. We present a novel attack taking as input a 10-minute sound recording of a user typing English text using a keyboard, and then recovering up to 96% of typed characters. There is no need for a labeled training recording. Moreover the recognizer bootstrapped this way can even recognize random text such as passwords: In our experiments, 90% of 5-character random passwords using only letters can be generated in fewer than 20 attempts by an adve ...

Keywords: HMM, acoustic emanations, cepstrum, computer security, electronic eavesdropping, hidden Markov models, human factors, keyboards, learning theory, privacy, signal analysis

9 Acoustic environment as an indicator of social and physical context

Dan Smith, Ling Ma, Nick Ryan

March 2006 Personal and Ubiquitous Computing, Volume 10 Issue 4

Publisher: Springer-Verlag

Full text available: pdf(731.76 KB) Additional Information: full citation, abstract

Acoustic environments provide many valuable cues for context-aware computing applications. From the acoustic environment we can infer the types of activity, communication modes and other actors involved in the activity. Environmental or background noise can be classified with a high degree of accuracy using recordings from microphones commonly found in PDAs and other consumer devices. We describe an acoustic environment recognition system incorporating an adaptive learning mechanism and its use ...

Keywords: Acoustic environment, Adaptive feedback, Classification, Context awareness, Machine learning, Mobile computing

10 Continuous speech recognition I: Acoustic modeling of subword units for large vocabulary speaker independent speech recognition

Chin-Hui Lee, Lawrence R. Rabiner, Roberto Pieraccini, Jay G. Wilpon

October 1989 Proceedings of the workshop on Speech and Natural Language HLT '89 Publisher: Association for Computational Linguistics

Full text available: pdf(904.19 KB) Additional Information: full citation, abstract, references

The field of large vocabulary, continuous speech recognition has advanced to the point where there are several systems capable of attaining between 90 and 95% word accuracy for speaker independent recognition of a 1000 word vocabulary, spoken fluently for a task with a perplexity (average word branching factor) of about 60. There are several factors which account for the high performance achieved by these systems, including the use of hidden Markov models (HMM) for acoustic modeling, the use of ...

Planning the acoustic urban environment: a GIS-centered approach Maria Piedade G. Oliveira, Eduardo Bauzer Medeiros, Clodoveu A. Davis

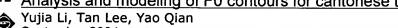
November 1999 Proceedings of the 7th ACM international symposium on Advances in geographic information systems

Publisher: ACM Press

Full text available: pdf(114.98 KB) Additional Information: full citation, references, index terms

Keywords: geographic applications, pollution control, urban noise

12 Analysis and modeling of F0 contours for cantonese text-to-speech



September 2004 ACM Transactions on Asian Language Information Processing (TALIP), Volume 3 Issue 3

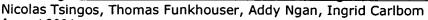
Publisher: ACM Press

Full text available: pdf(969.61 KB) Additional Information: full citation, abstract, references, index terms

For the generation of highly natural synthetic speech, the control of prosody is of primary importance. The fundamental frequency (F0) is one of the most important components of speech prosody. This research investigates the variation of F0 in continuous Cantonese speech, with the goal of establishing an effective mechanism of prosody control in Cantonese text-to-speech (TTS) applications. Cantonese is a commonly used Chinese dialect that is well known for being rich in tones. This article de ...

Keywords: Chinese dialects, Text-to-speech, fundamental frequency, prosody, tones

13 Modeling acoustics in virtual environments using the uniform theory of diffraction





Publisher: ACM Press

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> Full text available: pdf(6.03 MB) <u>terms</u>

Realistic modeling of reverberant sound in 3D virtual worlds provides users with important cues for localizing sound sources and understanding spatial properties of the environment. Unfortunately, current geometric acoustic modeling systems do not accurately simulate reverberant sound. Instead, they model only direct transmission and specular reflection, while diffraction is either ignored or modeled through statistical approximation. However, diffraction is important for correct interpretati ...

14 Acoustic modeling: Subphonetic modeling for speech recognition

Mei-Yuh Hwang, Xuedong Huang

February 1992 Proceedings of the workshop on Speech and Natural Language HLT '91

Publisher: Association for Computational Linguistics

Full text available: pdf(611.33 KB) Additional Information: full citation, abstract, references

How to capture important acoustic clues and estimate essential parameters reliably is one of the central issues in speech recognition, since we will never have sufficient training data to model various acoustic-phonetic phenomena. Successful examples include subword models with many smoothing techniques. In comparison with subword models, subphonetic modeling may provide a finer level of details. We propose to model subphonetic events with Markov states and treat the state in phonetic hidden Mar ...

15 Computer graphics visualization for acoustic simulation

🔈 A. Stettner, D. P. Greenberg

July 1989 ACM SIGGRAPH Computer Graphics , Proceedings of the 16th annual conference on Computer graphics and interactive techniques SIGGRAPH

'89, Volume 23 Issue 3

Publisher: ACM Press

Full text available: pdf(14.64 MB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> terms

Computer simulations can be used to generate the spatial and temporal data describing the acoustical behavior of performance halls, but typically the analytical results are difficult to assimilate and compare. By using computer graphics to display the multi-dimensional data, substantially greater amounts of information than that conveyed by standard techniques can be communicated to the designer. This allows designs of different acoustical spaces to be tested, evaluated, and compared. An example ...

16 Acoustic modeling and robust CSR: High-accuracy large-vocabulary speech recognition using mixture tying and consistency modeling

Vassilios Digalakis, Hy Murveit

March 1994 Proceedings of the workshop on Human Language Technology HLT '94

Publisher: Association for Computational Linguistics

Full text available: pdf(587.65 KB) Additional Information: full citation, abstract, references

Improved acoustic modeling can significantly decrease the error rate in large-vocabulary speech recognition. Our approach to the problem is twofold. We first propose a scheme that optimizes the degree of mixture tying for a given amount of training data and computational resources. Experimental results on the Wall Street Journal (WSJ) Corpus show that this new form of output distribution achieves a 25% reduction in error rate over typical tied-mixture systems. We then show that an additional imp ...

17 <u>Geophysical modeling-migration viewed as a spectrum of supercomputer applications</u>

Olin G. Johnson, Oliver Lhemann

November 1986 Proceedings of 1986 ACM Fall joint computer conference

Publisher: IEEE Computer Society Press

Full text available: pdf(1.33 MB) Additional Information: full citation, references, index terms

18 Toward a unified approach to statistical language modeling for Chinese
Jianfeng Gao, Joshua Goodman, Mingjing Li, Kai-Fu Lee
March 2002 ACM Transactions on Asian Language Information Processing (TALIP),

Volume 1 Issue 1
Publisher: ACM Press

Full text available: pdf(1.19 MB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u>

This article presents a unified approach to Chinese statistical language modeling (SLM). Applying SLM techniques like trigram language models to Chinese is challenging because (1) there is no standard definition of words in Chinese; (2) word boundaries are not marked by spaces; and (3) there is a dearth of training data. Our unified approach automatically and consistently gathers a high-quality training data set from the Web, creates a high-quality lexicon, segments the training data using this ...

Keywords: Chinese language, Chinese pinyin-to-character conversion, backoff, character error rate, domain adaptation, lexicon, n-gram model, perplexity, pruning, smoothing, statistical language modeling, word segmentation

19 Modeling and simulating electronic textile applications

Thomas Martin, Mark Jones, Joshua Edmison, Tanwir Sheikh, Zahi Nakad
June 2004 ACM SIGPLAN Notices, Proceedings of the 2004 ACM SIGPLAN/SIGBED

conference on Languages, compilers, and tools for embedded systems LCTES '04, Volume 39 Issue 7

Publisher: ACM Press

Full text available: pdf(421.80 KB) Additional Information: full citation, abstract, references, index terms

This paper describes our design of a simulation environment for electronic textiles (etextiles) and our experiences with that environment. This simulation environment, based upon Ptolemy II, enables us to model a diverse range of areas related to the design of electronic textiles, including the physical environment they will be used in, the behavior of the sensors incorporated into the fabric, the on-fabric network, the power consumption of the system, and the execution of the application and s ...

Keywords: context awareness, electronic textiles, smart fabrics, wearable computing

20 Distributed computation of wave propagation models using PVM

J. S. Sochacki, D. Mitchum, P. O'Leary, R. E. Ewing, R. C. Sharpley

December 1993 Proceedings of the 1993 ACM/IEEE conference on Supercomputing

Publisher: ACM Press

Full text available: pdf(1.18 MB)

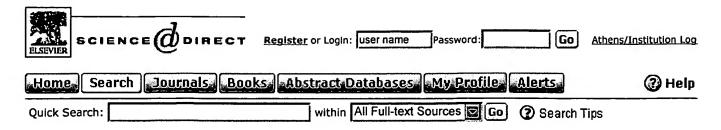
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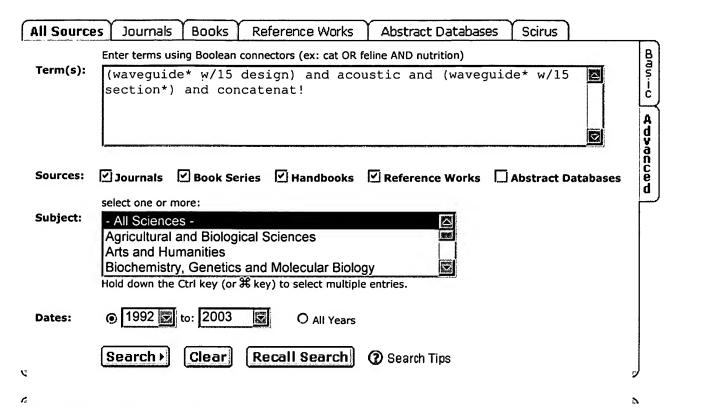
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1. Audio signal processing by neural networks • ARTICLE Neurocomputing, Volume 55, Issues 3-4, October 2003, Pages 593-625 Aurelio Uncini SummaryPlus Full Text + Links PDF (1005 K)
1 Articles Found
pub-date > 1991 and pub-date < 2004 and (waveguide* w/15 design) and acoustic and section* and concatenat!
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3.	Telecommunications system technologies for the near spacecraft • ARTICLE Acta Astronautica, Volume 39, Issues 1-4, July-August 1996, Pages 171-180 R. S. Bokulic, J. R. Jensen and T. R. McKnight Abstract Abstract + References PDF (728 K)
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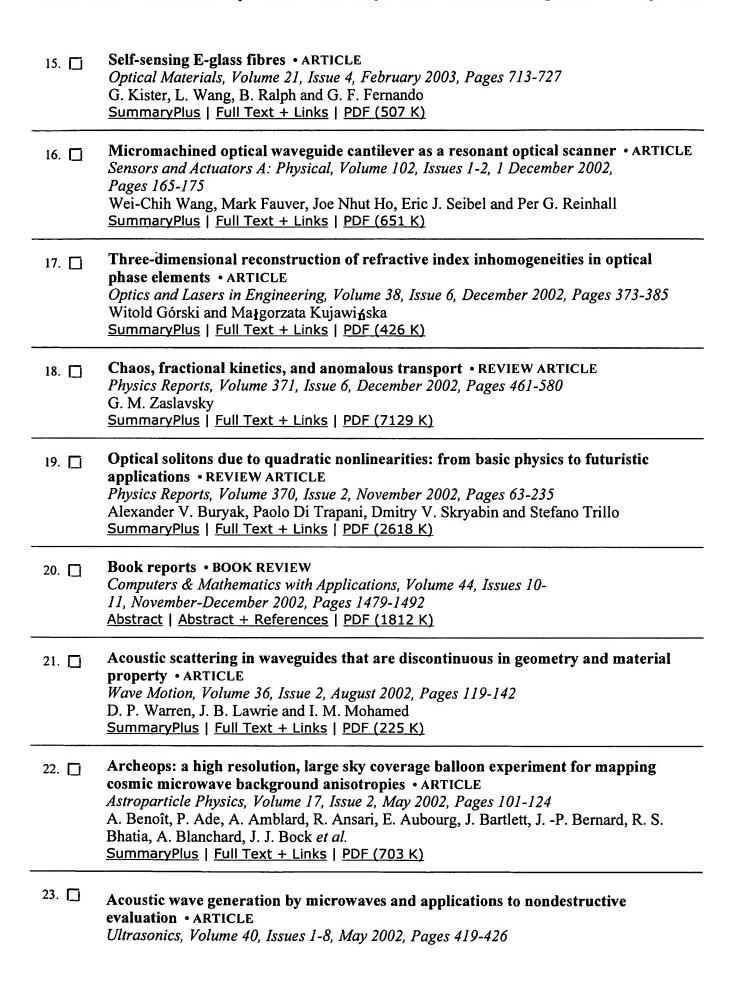
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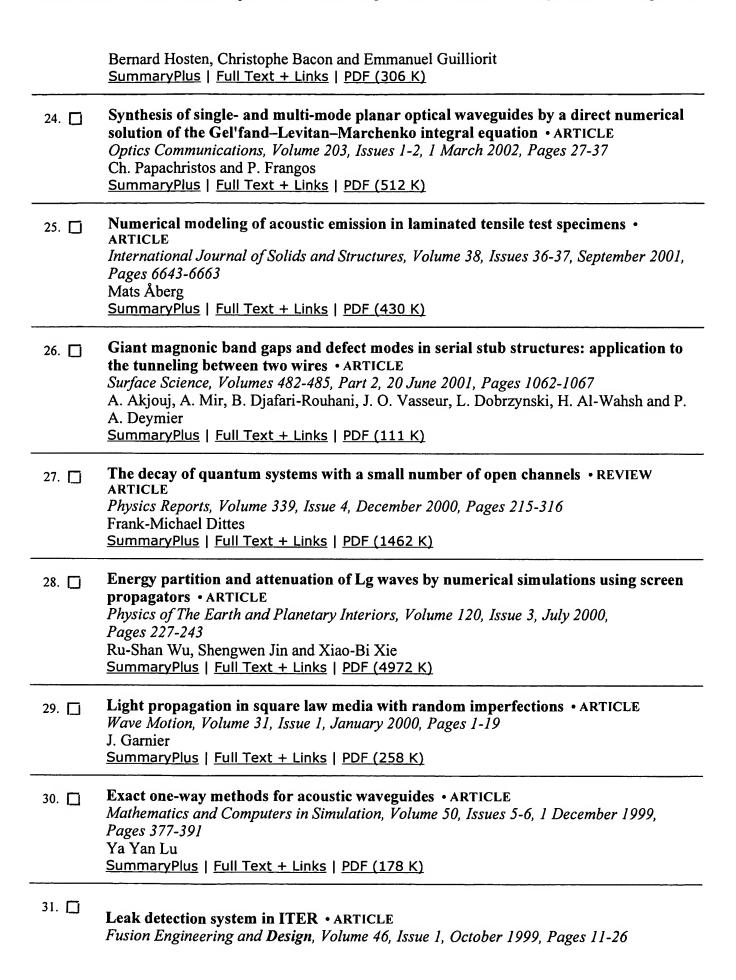
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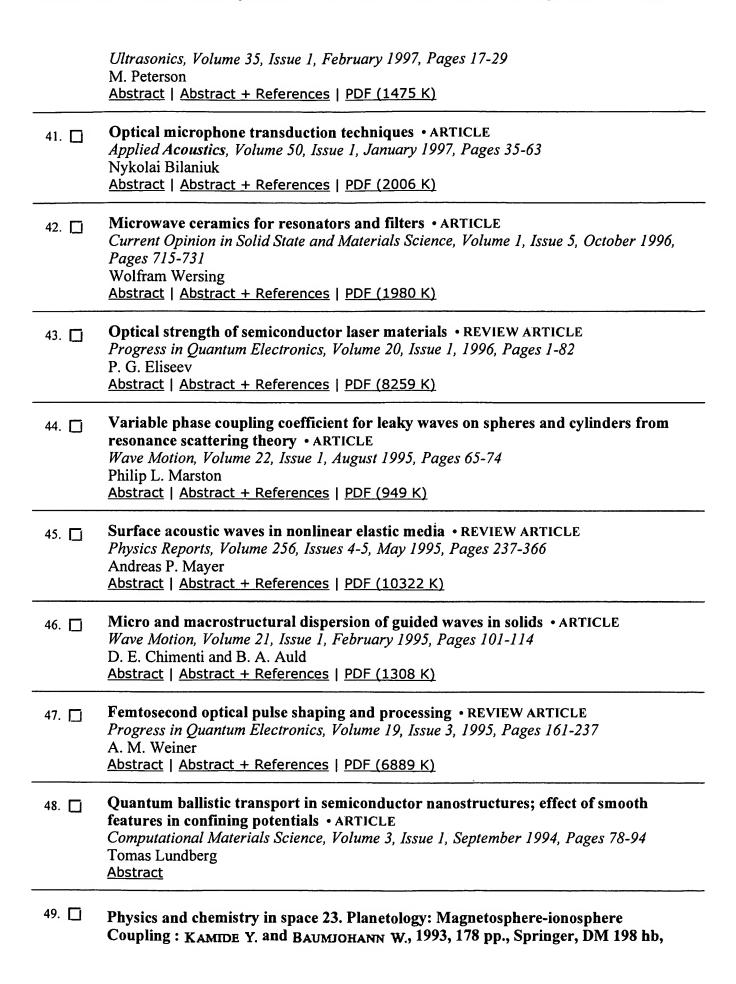
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